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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 23443-2024

Replacing GB/T 23443-2009

Aluminium panels for building decoration

建筑装饰用铝单板

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 23443-2009 "Aluminum veneer for architectural decoration". Compared with GB/T 23443-2009, except for the structural adjustment and In addition to editorial changes, the main technical changes are as follows:

- Changed the scope (see Chapter 1, Chapter 1 of the.2009 edition);
- Deleted the terms acrylic coating and open exposure (see 3.12 of the.2009 edition);
- Changed the definition of the term fluorocarbon coating (see 3.2, 3.2 of the.2009 edition);
- Added classification requirements according to natural climate weathering resistance (see 4.1.4);
- Changed the classification requirements according to the decorative surface material and processing technology (see 4.1.1, 4.1.2, 4.1.1, 4.1.2 of the.2009 edition);
- Changed the chemical composition and mechanical properties requirements of aluminum substrates (see 5.1.1, 5.1.1 of the.2009 edition);
- Changed the requirements for fluorocarbon coatings (see 5.2, 5.2 of the.2009 edition);

1 Scope

GB/T 23443-2024 is the Chinese standard for the aluminium panels used as building

cladding and interior decoration: the folded and stiffened single-skin panels that make up a great deal of the facade of Chinese commercial buildings. The panel is a safety-critical part of the envelope, since it is fixed several storeys up and it has to stay there through wind, thermal movement and time, and it is also the most visible, so its appearance is what the building is judged on. The standard sets the classification and designation, the requirements on the aluminium alloy and its temper and thickness, on the coating, whether fluorocarbon, polyester or anodised, and its thickness, adhesion, hardness, impact resistance, colour difference, gloss and resistance to weathering, chemicals and staining, on the dimensions and the geometric tolerances including flatness and squareness, on the stiffeners and the fixing lugs and their strength, and on the panel's mechanical performance under wind load, together with the test methods, the inspection rules and the marking, packaging, transport and storage. The 2024 edition replaces GB/T 23443-2009.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 191 Pictorial markings for packaging, storage and transportation

GB/T 1732 Determination of impact resistance of paint films

GB/T 1740 Determination of resistance to moisture and heat of paint films

GB/T 1766 Rating method for ageing of paints and varnishes

GB/T 2480 Ordinary abrasive silicon carbide

GB/T 3190 Chemical composition of wrought aluminum and aluminum alloys

GB/T 3880.1 Aluminium and aluminium alloy plates and strips for general industrial use Part

GB/T 9286 Paints and varnishes cross-cut test

GB/T 9754 Paints and varnishes - Determination of specular gloss at 20°, 60° and 85° of paint films without metallic pigments

GB/T 9761 Paints and varnishes Visual colour comparison of paints

GB/T 9780 Test method for stain resistance of architectural coatings

GB/T 10125 Artificial atmosphere corrosion test Salt spray test

GB/T 11186.2 Measurement of paint film color Part

3 Dimensional deviations

GB/T 4957 Measurement of coating thickness of non-conductive coatings on non-magnetic base metals - Eddy current method

GB/T 6388 Shipping and Receiving Marks for Transport Packages

GB/T 6461 Rating of metal and other inorganic coatings on metal substrates after corrosion testing of test specimens and test pieces

GB/T 6739 Paints and varnishes - Determination of film hardness by pencil method

GB/T 8753.1 Evaluation method for sealing quality of anodic oxide films on aluminium and aluminium alloys Part